

CONTENTS OF VOLUME THE TWENTY-SECOND.

	PAGE
The Naval Prize Essay, 1878—"Great Britain's Maritime Power, How Best Developed," &c. By Captain PHILIP H. COLOMB, R.N.	1
On some of the Main Causes which lead to the Foundering of Ships. By Vice-Admiral E. GARDINER FISHBOURNE, C.B., R.N.	56
On Compass Adjustment in Iron Ships, and on a new Sounding Apparatus. By Sir WILLIAM THOMSON, LL.D., F.R.S., Pres. R.S.E., &c., &c.	91
On Military Equipment. By Lieut. F. J. GRAVES, 20th Hussars	120
The Kurdistan Mountain Ranges, considered in reference to a Russian Advance on the Tigris Valley. By Lt.-Col. RALPH E. CARR, 36th Regiment.	155
Canada, Dominion Artillery Association. Prize Essay. By Capt. and Brevet Lieut.-Col. C. E. MONTIZAMBERT, B Battery, Canadian Artillery.	184
The Telephone and its application to Military and Naval Purposes. By W. H. PREECE, M.I.C.E., &c., &c.	209
Names of Members who joined the Institution between the 1st January and the 31st March, 1878	217
Non-commissioned Officers in Continental Armies. By JOHN ROSS-OF-BLADENBERG, Coldstream Guards	221
Estimates for the Italian Navy for 1878, and an account of the new Ironclad "Italia," building at Castellamare. From the <i>Révue Maritime et Coloniale</i>	260
Floating of the stranded French man-of-war "Escopette." From the <i>Moniteur de la Flotte</i>	262
The Russian Establishment at Vladivostock. From the <i>Rivista Marittima</i> ...	263
Notices of Books	265
On the Laws and Customs of War as limiting the Use of Fire-Ships, Explosion Vessels, Torpedoes, and Submarine Mines. By Admiral the Right Hon. Lord DUNSANY	271
On Some of the True Bases for a Rule of the Road at Sea. By Captain P. H. COLOMB, R.N.	291
Military Notes round Plevna, and on the Danube, December, 1877-January, 1878. By Lieut. F. WELCH, 25th, King's Own Borderers.	323
On the Employment of the Reserve Forces in case of an Expeditionary Force being sent abroad. By Colonel H. C. FLETCHER, C.M.G., Commanding 2nd Battalion Scots Guards	350
Experiences of a New System of Lighting Her Majesty's Ships. By Captain CYPRIAN A. G. BRIDGE, R.N.	363
On the Armament and Organization of Cavalry, and their Influence on its Tactics; and Suggestions for obtaining Cavalry Reserves. By Major S. BOULDERSON, 17th Lancers.	378

NAVAL ESSAYS, HONOURABLY MENTIONED.

"Organization and De-centralization." By Lieut. and Commander JAMES B. HAYE, R.N.	399
"Magna pericla latent." By Lieut. SYDNEY M. EARDLEY-WILMOT, R.N.	435

	PAGE
"Arma pacis fulcra." By Commander GERARD H. NOEL, R.N. (Gold Medallist, 1876)	461
Improvements in Lights for Signalling and other Naval and Military purposes. By A. M. SILBER, Esq.	499
Steam-power <i>versus</i> Sail-power for Men-of-war. By Captain P. H. COLOMB, R.N.	530
The best Detail Formations for Infantry Attack. By Lieut.-Colonel J. H. A. MACDONALD, Queen's, City of Edinburgh Rifle Volunteer Brigade	556
The Population, Prospects, and Future Government of the Transvaal. By G. PIGOT MOODIE, Esq., F.R.G.S., &c., &c.	583
Facts connected with the Naval Operations during the Civil War in the United States. By Rear-Admiral R. V. HAMILTON, C.B., &c., &c.	612
A Colonial Naval Volunteer Force. By THOMAS BRASSEY, Esq., M.P., &c., &c.	641
The Native States of India in Subsidiary Alliance with the British Government. By Colonel G. B. MALLESON, C.S.I., late Bengal Staff Corps	661
Communications with British India under possible Contingencies. By Major-General Sir FREDERIC J. GOLDSMID, C.B., K.C.S.I., &c., &c.	675
Names of Members who joined the Institution between the 1st April and the 30th June, 1878	639
On the Organization and Strength of the German Navy	703
The Russian Navy in 1877	721
The Medical Department in the Field	723
Russian Torpedoes on the Danube at Sulina, and at Batoum. Translated from the <i>Revue Maritime et Coloniale</i> (April, 1878) by Lieutenant J. MERYON, R.N.	735
"The Combat at Plevna." From the Translation, by Captain G. MACDONALD, R.E., of von Trotha's work entitled "Der Kampf um Plevna"	745
Notices of Books, Naval and Military	756
Discussion on the Prize and other Naval Essays of 1878	765
On the Influence of Breech-Loading Arms on Tactics, and on the Supply of Ammunition in the Field. By Colonel EDWARD CLIVE, Grenadier Guards	814
Discussion on the above	841
On the best Method of Carrying Life-Saving Apparatus on Board our Men-of-War. By Commander A. H. GILMORE, R.N.	864
Adjourned Discussion on the above	875
Names of Members who joined the Institution between the 1st July and the 30th Sept., 1878	890
Musketry Instruction and Long-Range Infantry Fire in Austria, France, and Prussia. By Lieutenant WALTER H. JAMES, R.E.	893
Lessons from the late War. By Captain JOHN L. NEEDHAM, R.M.A., Professor of Fortification, Royal Naval College, Greenwich	941
On the Adoption of the Naval and Military Systems of Europe by China and Japan. By Captain CYPRIAN G. BRIDGE, R.N.	957
Military Map-Making. By Captain T. HUNGERFORD HOLDICH, R.E.	977
On Afghanistan and Military Operations therein. By Lieutenant-General J. L. VAUGHAN, C.B.	1003
On the Strategic Conditions of our Indian North-West Frontier. By Major-General E. B. HAMLEY, C.B., R.A.	1027

CONTENTS.

v

	PAGE
Russian Torpedoes on the Danube at Soukhoun, and at Batoum (<i>concluded</i>). By Lieutenant J. E. MERYON, R.N.	1049
Military Railway-Transport in France. By Lieutenant-Colonel CLIFFORD PARSONS, Professor of Military Administration, Staff College	1066
Repeating Rifles: a short Account of those in Use in France, Norway, Austria, and Switzerland. By Lieutenant WALTER H. JAMES, R.E.	1090
Notices of Books	1102

Proceedings of the Forty-eighth Anniversary Meeting	i
Statement of Changes amongst the Members	vi
Tabular Analysis.....	vii
Award of the Referees (Military Prize Essay) and Presentation of the Gold Medal.	x
Names of Members who joined the Institution between the 1st October and the 31st December, 1878	xv

Additions to the Library :—

Books presented	xvi
Books purchased.....	xviii
Parliamentary reports, &c., presented	xx
Journals and Transaction exchanged	xxii
Periodicals purchased.....	xxii
Maps, plans, charts, &c.....	xxiii
Additions to the Museum	xxv

